Use Attainability Analysis for WBID 1351 Horse Creek Submitted by SES, Inc.

To

Missouri Department of Natural Resources Water Protection Program Date Received: June 4, 2007

#### Field Data Sheets for Recreation Use Stream Surveys Data Sheet A - Water Body Identification

(For water body being surveyed)

#### **Water Body Information**

Water Body Name: Horse Cre	eek	WBID:	: 1351		
8 digit HUC code: 1029010	6	County	y: Dade		
Upstream Legal Description	T34N R2	29W Sec 35	5		
Downstream Legal Description	T31N R2	28W Sec 15	5		
Number of Sites Evaluated	15				
List all site numbers, listed upstre	eam to downstre	eam			
12, 13, 14, 15, 11, 10, 9, 7, 8, 6, 3, 5, 4, 2, 1					

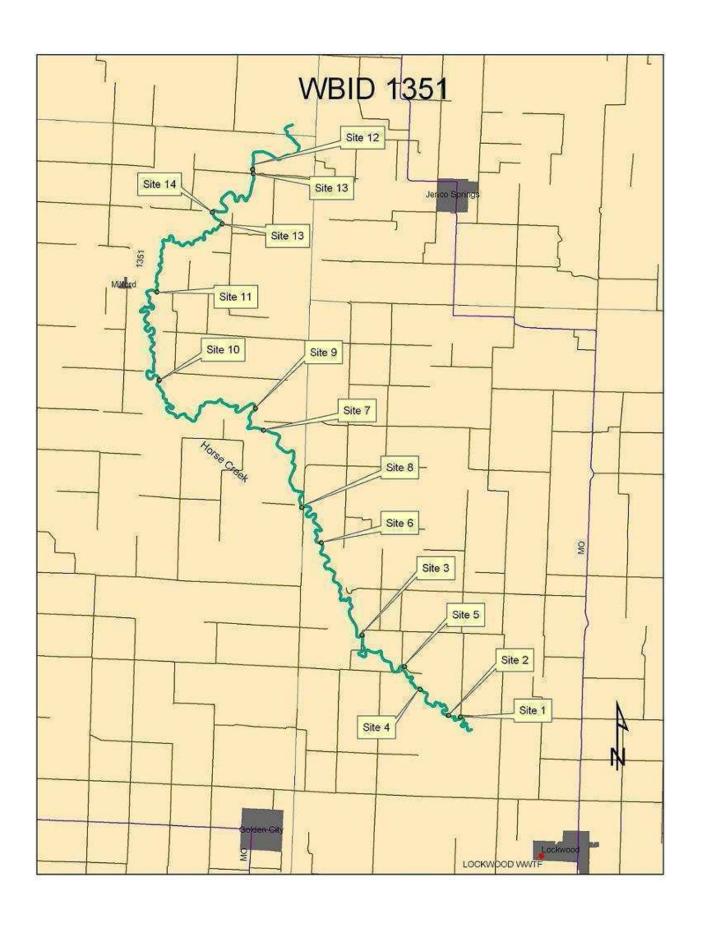
#### **Discharger Facility Information**

Discharger Facility Name(s):	Lockwood WWTF
Discharger Permit Number(s):	MO0030473

#### **UAA Surveyor**

Name of Su	rveyor:	Gilisa Gould	Telephone Numl	ber:	913-307-0046	6
Organization	n/Employe	r: SES, Inc.				
Position: F	Field Team	n Leader				

Signed:	D ate:	



WBID 1351 Site # 1

Date and Time: 8.23.07 9:30 AM

Current Weather Conditions cloudy, windy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing)

Downstream from NE 90 Road

GPS Mark: 61

Upstream Photo 2 Downstream Photo 1

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign <u>Fence</u>

Steep slopes None of the Above <u>Other</u> <u>pasture</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark # Upstream	1351 61 <b>Views Phy</b>			Oxygen (p Is there ar	• ,	5.2 present at this		у
				If so, is the	re an obv	ious current?		у
Select one	Select one of the following channel features:  % of Channel Feature							
Riffle	70 01 0110							1
Run		45						
Pool		55						
Downstrea	ım View's	Physical Di	mensions:			resent at this		у
				If so, is the	re an obv	ious current?		у
						<u> </u>		1
Substrate:								_
% Cobble		% Gravel		50% Sand		50% Silt		
% Mud/Cla	у	% Bedrock	,	]				
Aquatic Ve	egetation:	(Note amοι	unt of vege	tation or al	gal grow	th at the asse	essment si	te)
		Ī	Broadleaf aı	rowhead at	one trans	sect.		
Water Cha	Water Characteristics							
Odor		Sewage	<u>Musky</u>	Chemical	None	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	<u>brown</u>	
Bottom Dep	oosit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	posit	Oil	Scum	Foam	<u>None</u>	Other		

Site # 1 WBID # 1351

-	Depth (m)		Depth (m)
Transect 1	0.40	Transect 5	0.45
Substrate:	0.90	Substrate:	0.80
silt/sand	1.00	silt/sand	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	pool	1.00
Channel Width:	0.95	Channel Width:	1.00
10.00	0.70	9.00	1.00
0.98	0.65	1.00	0.85
Transect 2	0.65	Transect 6	0.80
Substrate:	1.00	Substrate:	1.00
silt/sand	1.00	silt/sand	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	pool	1.00
Channel Width:	1.00	Channel Width:	1.00
11.00	1.00	8.00	1.00
1.00	1.00	1.00	1.00
Transect 3	0.60	Transect 7	1.00
Substrate:	0.75	Substrate:	1.00
silt/sand	1.00	silt/sand	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	run	1.00
Channel Width:	1.00	Channel Width:	1.00
10.00	1.00	7.00	1.00
1.00	1.00	1.00	1.00
Transect 4	0.70	Transect 8	1.00
Substrate:	0.85	Substrate:	1.00
silt/sand	1.00	silt/sand	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
pool	1.00	run	1.00
Channel Width:	1.00	Channel Width:	1.00
7.00	1.00	7.00	1.00
1.00	0.80	1.00	1.00

_	Depth (m)
Transect 9	1.00
Substrate:	1.00
silt/sand	1.00
Water Clarity:	1.00
none	1.00
Channel Feature:	1.00
run	1.00
Channel Width:	1.00
8.00	1.00
1.00	1.00
Transect 10	1.00
Substrate:	1.00
silt/sand	1.00
Water Clarity:	1.00
none	1.00
Channel Feature:	1.00
run	1.00
Channel Width:	1.00
8.00	0.85
1.00	0.60
Transect 11	0.60
Substrate:	0.70
silt/sand	0.95
Water Clarity:	1.00
none	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	0.80
10.00	0.65
0.88	0.60

WBID 1351 Site # 2

Date and Time: 8.23.07 10:30 AM

Current Weather Conditions cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) NE 90 Road

GPS Mark: 62

Upstream Photo 3 Downstream Photo 4

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing None of the Above Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above <u>Other</u> <u>hayground, a house</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark #	1351 62			2 Oxygen (p	pm)	4.8		
Upstream	Views Phys	sical Dime	nsions:	Is there ar	ny water p	resent at this	view?	У
				If so, is the	re an obv	ious current?		n
Select one	of the follows		nnel feature	es:				
Riffle	70 OI CHAIN	ier i cature						]
Run								
Pool		100						
Downstrea	am View's F	Physical Di	mensions:	Is there an	y water pr	esent at this	view?	у
				If so, is the	re an obv	ious current?		n
								]
Substrate:								
% Cobble		% Gravel		50% Sand		50% Silt		]
				1				<u>-</u> "
% Mud/Cla	У	% Bedrock		J				
Aquatic V	egetation: (	Note amou	int of veget	tation or al	gal growt	th at the ass	essment sit	te)
Aquatic V	getation. (	itote amot	ant or vege	tation or al	gai giowi	in at the ass		
				none				
Water Cha	racteristics	5						
Odor		Sewage	<u>Musky</u>	Chemical	None	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	<u>brown</u>	
Bottom De	posit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	enosit	Oil	Scum	Foam	None	Other		

_	Depth (m)		Depth (m)
Transect 1	0.35	Transect 5	0.45
Substrate:	0.70	Substrate:	0.85
silt/sand	1.00	silt/sand	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
pool	1.00	pool	1.00
Channel Width:	1.00	Channel Width:	1.00
10.00	1.00	10.00	1.00
1.00	0.85	1.00	0.90
Transect 2	0.20	Transect 6	0.60
Substrate:	0.65	Substrate:	0.75
silt/sand	0.80	silt/sand	1.00
Water Clarity:	0.95	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
pool	1.00	pool	1.00
Channel Width:	1.00	Channel Width:	1.00
10.00	0.75	11.00	0.80
0.88	0.70	1.00	0.65
Transect 3	0.40	Transect 7	0.45
Substrate:	0.80	Substrate:	0.80
silt/sand	0.90	silt/sand	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
pool	1.00	pool	1.00
Channel Width:	0.95	Channel Width:	1.00
11.00	0.70	12.00	0.75
0.93	0.60	1.00	0.60
Transect 4	0.45	Transect 8	0.50
Substrate:	0.80	Substrate:	0.55
silt/sand	1.00	silt/sand	0.80
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
pool	1.00	pool	1.00
Channel Width:	0.75	Channel Width:	1.00
10.00	0.70	9.00	1.00
0.90	0.60	1.00	0.75

_	Depth (m)
Transect 9	0.45
Substrate:	0.80
silt/sand	0.95
Water Clarity:	0.95
none	0.95
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
11.00	1.00
0.95	0.70
Transect 10	0.40
Substrate:	0.75
silt/sand	0.90
Water Clarity:	1.00
none	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	0.90
10.00	0.80
0.90	0.45
Transect 11	0.30
Substrate:	0.70
silt/sand	0.95
Water Clarity:	0.95
none	0.95
Channel Feature:	1.00
pool	1.00
Channel Width:	0.80
10.00	0.75
0.88	0.75

WBID 1351 Site # 3

Date and Time: 8.23.07 11:30 AM

Current Weather Conditions partly cloudy, windy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) Highway C

GPS Mark: 63

Upstream Photo 7 Downstream Photo 6

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes <u>None of the Above</u> Other

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark # Upstream	1351 63 <b>Views Phy</b>	sical Dime		Oxygen (p Is there a	pm)	3.3 resent at this		У
				If so, is the	ere an obv	ious current?		n
Select one		owing chai		es:				
Riffle	70 OI OIIGII	norr oataro						1
Run		100						
Pool								
Downstrea	am View's	Physical Di	mensions:	Is there an	y water pı	resent at this	view?	у
				If so, is the	ere an obv	ious current?		n
								]
								]
Substrate:								
% Cobble		% Gravel		% Sand		50% Silt		]
		1-1-		- -				•
50% Mud/0	Clay	% Bedrock		J				
Aquatic Ve	egetation:	(Note amou	int of vege	tation or al	gal grow	th at the asso	essment sit	te)
Aquatio V	ogetation.	(Note amor	ant or vege	tation or a	gai gion	in at the ass	COSTRICTIC SI	,
				none				
Water Cha	racteristic	s						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	<u>Brown</u>	
Bottom De	posit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	posit	Oil	Scum	Foam	<u>None</u>	Other		

Site # 3 WBID # 1351

	Depth (m)		
Transect 1	0.05	Transect 5	0.20
Substrate:	0.30	Substrate:	0.95
silt/clay	0.50	silt/clay	1.00
Water Clarity:	0.75	Water Clarity:	1.00
none	0.90	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	pool	1.00
Channel Width:	1.00	Channel Width:	1.00
9.00	1.00	7.00	1.00
0.95	1.00	1.00	1.00
Transect 2	0.05	Transect 6	0.35
Substrate:	0.40	Substrate:	0.80
silt/clay	0.65	silt/clay	0.95
Water Clarity:	0.90	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	pool	1.00
Channel Width:	1.00	Channel Width:	1.00
8.00	1.00	6.00	1.00
1.00	1.00	1.00	1.00
Transect 3	0.05	Transect 7	0.30
Substrate:	0.60	Substrate:	0.80
silt/clay	1.00	silt/clay	0.75
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	run	1.00
Channel Width:	1.00	Channel Width:	1.00
9.00	1.00	8.00	0.80
1.00	1.00	0.90	0.60
Transect 4	0.20	Transect 8	0.20
Substrate:	0.75	Substrate:	0.75
silt/clay	1.00	silt/clay	1.00
Water Clarity:	1.00	Water Clarity:	1.00
none	1.00	none	1.00
Channel Feature:	1.00	Channel Feature:	1.00
run	1.00	run	1.00
Channel Width:	1.00	Channel Width:	1.00
10.00	1.00	11.00	1.00
1.00	1.00	1.00	1.00

-	Depth (m)
Transect 9	0.15
Substrate:	0.65
silt/clay	1.00
Water Clarity:	1.00
none	1.00
Channel Feature:	1.00
run	1.00
Channel Width:	1.00
9.00	1.00
1.00	0.70
Transect 10	0.20
Substrate:	0.70
silt/clay	0.95
Water Clarity:	0.95
none	0.95
Channel Feature:	1.00
run	1.00
Channel Width:	1.00
8.00	1.00
0.98	1.00
Transect 11	0.15
Substrate:	0.55
silt/clay	0.85
Water Clarity:	0.90
none	1.00
Channel Feature:	1.00
run	1.00
Channel Width:	1.00
7.00	1.00
0.95	0.70

WBID 1351 Site # 4

Date and Time: 8.23.07 12:30pm

Current Weather Conditions partly cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) Road 80 behind house

GPS Mark: 64

Upstream Photo 9 Downstream Photo 8

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above <u>Other</u> <u>Houses and pasture</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark #	1351 64		Site #	4 Oxygen (p	nm)	3.5							
	Views Phy					resent at this		у					
				If so, is the	re an obv	ious current?		у					
Select one		owing chainel Feature	nnel feature	es:									
Riffle		9											
Run Pool		64 27											
1 001							l	1					
Downstrea	am View's I	Physical Di	mensions:	Is there any	y water pr	esent at this	view?	У					
				If so, is the	re an obv	ious current?		n					
				,									
								1					
							Substrate:						
Substrate:													
Substrate: 5% Cobble		% Gravel		% Sand		95% Silt		]					
5% Cobble		•		% Sand		95% Silt		]					
		% Gravel		% Sand		95% Silt		]					
5% Cobble % Mud/Cla	y	% Bedrock			gal growt	95% Silt	essment si	] te)					
5% Cobble % Mud/Cla	y	% Bedrock			gal growt		essment si	] te)					
5% Cobble % Mud/Cla	y	% Bedrock			gal growt		essment si	] te)					
5% Cobble % Mud/Cla	y	% Bedrock			gal growt		essment si	] te)					
5% Cobble % Mud/Cla	y	% Bedrock			gal growt		essment si	te)					
5% Cobble % Mud/Cla	y	% Bedrock		tation or al		th at the asse	essment si	] te)					
5% Cobble % Mud/Cla Aquatic Ve	egetation: (	% Bedrock (Note amou	unt of vege	tation or al		th at the asse	essment si	te)					
5% Cobble % Mud/Cla Aquatic Ve	y	% Bedrock (Note amou	unt of veget	tation or al	annel at ti	th at the asse	essment si	te)					
5% Cobble % Mud/Cla Aquatic Ve	egetation: (	% Bedrock (Note amou	unt of vege	tation or al		th at the asse	essment si	te)					
5% Cobble % Mud/Cla Aquatic Ve	egetation: (	% Bedrock (Note amou	unt of veget	tation or al	annel at ti	th at the asse	essment si	te)					
5% Cobble % Mud/Cla Aquatic Ve	egetation: (	% Bedrock (Note amounts) small s Sewage	willow in 70	tation or algorithms of the ch	annel at t	ransect 6		] te)					

Site # 4 WBID # 1351

	Depth (m)		Depth (m)	<u>.</u>	Depth (m)
Transect 1	0.10	Transect 5	1.00	Transect 9	1.00
Substrate:	0.35	Substrate:	1.00	Substrate:	1.00
cobble/silt	0.40	silt	1.00	silt	1.00
Water Clarity:	0.60	Water Clarity:	1.00	Water Clarity:	1.00
none	0.85	none	1.00	none	1.00
Channel Feature:	1.00	pool	1.00	Channel Feature:	1.00
run	1.00		1.00	run	1.00
Channel Width:	1.00	8.00	1.00	Channel Width:	1.00
8.00	1.00		1.00	7.00	1.00
0.80	0.75	1.00	1.00	1.00	1.00
Transect 2	1.00	Transect 6	0.15	Transect 10	0.70
Substrate:	1.00	Substrate:	0.25	Substrate:	1.00
silt	1.00	silt	0.40	silt	1.00
Water Clarity:	1.00	Water Clarity:	0.40	Water Clarity:	1.00
none	1.00	some	0.40	none	1.00
Channel Feature:	1.00	Channel Feature:	0.30	Channel Feature:	1.00
run	1.00	riffle	0.20	run	1.00
Channel Width:	1.00	Channel Width:	0.05	Channel Width:	1.00
9.00	1.00	9.00	0.05	10.00	1.00
1.00	1.00	0.23	0.05	1.00	0.85
Transect 3	0.70	Transect 7	0.30	Transect 11	0.80
Substrate:	0.95	Substrate:	0.75	Substrate:	0.95
silt	0.95	silt	0.90	silt	1.00
Water Clarity:	1.00	Water Clarity:	0.95	Water Clarity:	1.00
none	1.00	some	0.95	none	1.00
Channel Feature:	1.00	Channel Feature:	0.95	Channel Feature:	1.00
run	1.00	pool	0.95	run	1.00
Channel Width:	1.00	Channel Width:	1.00	Channel Width:	1.00
8.00	1.00	7.00	0.75	19.00	0.70
1.00	1.00	0.93	0.50	1.00	0.65
Transect 4	1.00	Transect 8	0.75	_	
Substrate:	1.00	Substrate:	0.90		
silt	1.00	silt	1.00		
Water Clarity:	1.00	Water Clarity:	1.00		
none	1.00	none	1.00		
Channel Feature:	1.00	Channel Feature:	1.00		
run	1.00	pool	1.00		
Channel Width:	1.00	Channel Width:	1.00		
10.00	1.00	9.00	1.00		
1.00	1.00	1.00	0.45		

WBID 1351 Site # 5

Date and Time: 8.23.07 2:00 PM

Current Weather Conditions cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) upstream site #4

GPS Mark: 65

Upstream Photo 10 Downstream Photo 11

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing None of the Above Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes <u>None of the Above</u> Other

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark #	1351 65		Site # Dissolved	5 Oxygen (p	(ma	3.3		
		sical Dime				resent at this	view?	У
				If so, is the	re an obv	ious current?		n
Select one		owing cha	nnel feature	es:				
Riffle		9 70						
Run Pool		73 18						
1 001		10						]
Downstrea	am View's	Physical Di	mensions:	Is there an	y water pr	esent at this	view?	У
				If so, is the	re an obv	ious current?		у
								_
								-
								J
Substrate:								
27% Cobbl	е	32% Grave	el	% Sand		41% Silt		]
% Mud/Cla	у	% Bedrock		1				
Aquatic Ve	egetation:	(Note amou	unt of vege	tation or al	gal growt	th at the asse	essment si	te)
			20% v	villow at 3 tr	ansects			
Water Cha	racteristic	s						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	<u>brown</u>	
Bottom De	posit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	posit	Oil	Scum	Foam	<u>None</u>	Other		

Mark # 65 WBID # 1351 Site # 5

-	Depth (m)		Depth (m)	_	Depth (m)
Transect 1	0.10	Transect 5	0.10	Transect 9	0.00
Substrate:	0.40	Substrate:	0.40	Substrate:	0.40
cobble/silt	0.40	gravel/silt	0.45	gravel/silt	0.40
Water Clarity:	0.40	Water Clarity:	0.50	Water Clarity:	0.50
none	0.50	none	0.50	none	0.60
Channel Feature:	0.45	Channel Feature:	0.50	Channel Feature:	0.50
pool	0.45	run	0.40	run	0.50
Channel Width:	0.40	Channel Width:	0.30	Channel Width:	0.60
7.00	0.20	5.00	0.10	8.00	0.30
0.40	0.05	0.40	0.05	0.45	0.20
Transect 2	0.10	Transect 6	0.00	Transect 10	0.30
Substrate:	0.30	Substrate:	0.10	Substrate:	0.70
cobble	0.30	gravel/silt	0.40	gravel/silt	0.80
Water Clarity:	0.35	Water Clarity:	0.50	Water Clarity:	0.75
none	0.35	none	0.40	none	0.80
Channel Feature:	0.40	Channel Feature:	0.30	Channel Feature:	0.55
pool	0.35	run	0.10	run	0.45
Channel Width:	0.25	Channel Width:	0.10	Channel Width:	0.25
7.00	0.15	7.00	0.10	10.00	0.25
0.30	0.05	0.10	0.00	0.50	0.05
Transect 3	0.00	Transect 7	0.05	Transect 11	0.10
Substrate:	0.05	Substrate:	0.25	Substrate:	0.65
cobble	0.10	silt	0.30	gravel/silt	0.80
Water Clarity:	0.15	Water Clarity:	0.40	Water Clarity:	0.75
some	0.25	none	0.45	none	0.85
Channel Feature:	0.20	Channel Feature:	0.40	Channel Feature:	0.85
riffle	0.10	run	0.40	run	0.85
Channel Width:	0.10	Channel Width:	0.20	Channel Width:	0.85
8.00	0.10	8.00	0.15	10.00	0.75
0.10	0.05	0.28	0.10	0.78	0.40
Transect 4	0.10	Transect 8	0.05		
Substrate:	0.40	Substrate:	0.40		
cobble/gravel	0.50	gravel/silt	0.40		
Water Clarity:	0.60	Water Clarity:	0.45		
none	0.80	none	0.45		
Channel Feature:	0.90	Channel Feature:	0.40		
run	0.70	run	0.35		
Channel Width:	0.65	Channel Width:	0.25		
9.00	0.40	8.00	0.10		
0.55	0.20	0.38	0.05		

WBID 1351 Site # 6

Date and Time: 8.23.07 3:00 PM

Current Weather Conditions cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) private drive

GPS Mark: 66

Upstream Photo 13 Downstream Photo 12

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign <u>Fence</u>

Steep slopes None of the Above <u>Other</u> <u>pasture and hay ground</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark #	1351 66		6 Oxygen (p		3.2		
Upstream Views	s Physical Dime	ensions:	Is there ar	ny water pre	sent at this	view?	У
			If so, is the	re an obvio	us current?		n
Select one of th	e following cha Channel Feature		es:				
Riffle	18						
Run	37						
Pool	45						
Downstream Vie	ew's Physical D	imensions:		-			у
			If so, is the	re an obvio	us current?		у
							•
							-
			1		l	1	J
Substrate:							
18% Cobble	27% Grav	el	10% Sand		45% Silt		
% Mud/Clay	% Bedrocl	K	]				
Aquatic Vegetat	ion: (Note amo	unt of vege	tation or al	gal growth	at the asse	essment sit	te)
		20% w	villow at 3 tra	ansects			
Water Characte	ristics						
Odor	Sewage	Musky	Chemical	<u>None</u>	Other		
Color	Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	<u>brown</u>	
Bottom Deposit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface Deposit	Oil	Scum	<u>Foam</u>	None	Other		

Site # 6 WBID # 1351

-	Depth (m)
Transect 1	0.20
Substrate:	0.25
gavel	0.30
Water Clarity:	0.50
none	0.40
Channel Feature:	0.40
riffle	0.35
Channel Width:	0.10
6.00	0.00
0.28	0.00
Transect 2	0.00
Substrate:	0.00
sand/silt	0.00
Water Clarity:	0.00
some	0.10
Channel Feature:	0.10
riffle	0.00
Channel Width:	0.10
6.00	0.10
0.05	0.15
Transect 3	0.00
Substrate:	0.20
cobble/sand	0.30
Water Clarity:	0.25
none	0.25
Channel Feature:	0.15
run Channel Width:	0.30
8.00	0.30 0.30
0.25	0.30
Transect 4 Substrate:	0.40 0.15
cobble/gravel	
Water Clarity:	0.15
none	0.20 0.20
Channel Feature:	0.25
pool	0.30
Channel Width:	0.20
7.00	0.20
0.20	0.10
0.20	5.10

	Depth (m)
Transect 5	0.15
Substrate:	0.25
cobble/silt	0.35
Water Clarity:	0.35
none	0.35
Channel Feature:	0.40
pool	0.40
Channel Width:	0.30
7.00	0.20
0.33	0.10
Transect 6	0.10
Substrate:	0.50
cobble/silt	0.60
Water Clarity:	0.60
none	0.55
Channel Feature:	0.50
pool	0.55
Channel Width:	0.50
6.00	0.45
0.50	0.05
Transect 7	0.60
Substrate:	0.45
silt	0.55
Water Clarity:	0.55
none	0.50
Channel Feature:	0.60
pool	0.50
Channel Width:	0.45
7.00	0.50
0.50	0.30
Transect 8	0.70
Substrate:	0.65
silt	0.65
Water Clarity:	0.75
none	0.70
Channel Feature:	0.60
pool	0.50
Channel Width:	0.45
6.00	0.45
0.63	0.10

-	Depth (m)
Transect 9	0.45
Substrate:	0.70
gravel/silt	0.70
Water Clarity:	0.70
none	0.65
Channel Feature:	0.45
run	0.35
Channel Width:	0.25
6.00	0.15
0.45	0.05
Transect 10	0.50
Substrate:	0.75
gravel/silt	0.75
Water Clarity:	0.80
none	0.70
Channel Feature:	0.45
run	0.40
Channel Width:	0.40
7.00	0.30
0.48	0.15
Transect 11	0.20
Substrate:	0.45
gravel/silt	0.50
Water Clarity:	0.70
none	0.70
Channel Feature:	0.60
run	0.30
Channel Width:	0.35
7.00	0.20
0.40	0.05

WBID 1351 Site # 7

Date and Time: 8.23.07 4:00pm

Current Weather Conditions cloudy, windy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) Highway F

GPS Mark: 67

Upstream Photo 15 Downstream Photo 14

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes <u>None of the Above</u> Other

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark #	1351 67			7 Oxygen (p		4.4		
Upstream	Views Phy	sical Dime	nsions:	Is there ar	ny water pre	sent at this	view?	У
				If so, is the	re an obvio	us current?		У
Select one	of the follows		nnel feature	es:				
Riffle		9						
Run		36						
Pool		55						
Downstrea	am View's F	Physical Di	mensions:		y water pres		view?	y n
Ī								
Substrate:								
23% Cobbl	е	59% Grave	el	5% Sand		13% Silt		
% Mud/Cla		% Bedrock		] tation or al	gal growth	at the asse	essment sit	e)
			small wil	llow at trans	sects 1, 2			
Water Cha	racteristics	6						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	reddish br	<u>rown</u>
Bottom De		Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	eposit	Oil	Scum	Foam	<u>None</u>	Other		

	Depth (m)
Transect 1	0.10
Substrate:	0.25
cobble	0.25
Water Clarity:	0.25
some	0.30
Channel Feature:	0.25
run	0.20
Channel Width:	0.20
2.00	0.15
0.23	0.05
Transect 2	0.00
Substrate:	0.05
cobble	0.15
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.15
6.00	0.05
0.05	0.10
Transect 3	0.20
Substrate:	0.50
cobble/silt	0.35
Water Clarity:	0.35
none	0.50
Channel Feature:	0.45
pool	0.45
Channel Width:	0.35 0.25
12.00 <b>0.35</b>	0.25
Transect 4	0.25
Substrate:	0.35
gravel	0.35
Water Clarity:	0.45
none Channel Feature:	0.45
	0.55
pool Channel Width:	0.60 0.60
12.00	0.60
0.45	0.60
0.43	0.40

-	Depth (m)
Transect 5	0.40
Substrate:	0.40
gravel/sand	0.50
Water Clarity:	0.45
none	0.50
Channel Feature:	0.55
pool	0.60
Channel Width:	0.70
12.00	0.70
0.50	0.50
Transect 6	0.35
Substrate:	0.50
gravel	0.55
Water Clarity:	0.60
none Channel Feature:	0.70 0.70
	0.70
pool Channel Width:	0.80
11.00	0.80
0.68	0.80
Transect 7	0.35
Substrate:	0.50
gravel	0.55
Water Clarity:	0.55
none	0.55
Channel Feature:	0.60
pool	0.65
Channel Width:	0.70
10.00	0.80
0.58	0.80
Transect 8	0.35
Substrate:	0.55
gravel	0.60
Water Clarity:	0.55
none	0.50
Channel Feature:	0.55
pool	0.60
Channel Width:	0.60
10.00	0.45
0.55	0.30

	Depth (m)
Transect 9	0.40
Substrate:	0.50
gravel	0.55
Water Clarity:	0.55
none	0.55
Channel Feature:	0.60
run	0.70
Channel Width:	0.60
15.00	0.45
0.55	0.15
Transect 10	0.20
Substrate:	0.20
gravel/silt	0.45
Water Clarity:	0.55
none	0.60
Channel Feature:	0.60
run	0.70
Channel Width:	0.70
8.00	0.65
0.60	0.60
Transect 11	0.10
Substrate:	0.40
gravel/silt	0.40
Water Clarity:	0.40
none	0.45
Channel Feature:	0.55
run	0.65
Channel Width:	0.70
9.00	0.50
0.43	0.40

WBID 1351 Site # 8

Date and Time: 8.23.07 4:45 PM

Current Weather Conditions cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) downstream of site 7

GPS Mark: 68

Upstream Photo 18 Downstream Photo 17

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes <u>None of the Above</u> Other

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark # Upstream	1351 68 <b>Views Phy</b>	sical Dime		8 Oxygen (p	<b>pm)</b> ny water pre	3.3 sent at this	view?	У
				If so, is the	re an obviou	us current?		n
·		owing charnel Feature	nnel feature	es:				
Riffle Run		55						
Pool		45						
Downstrea	am View's I	Physical Di	mensions:	Is there any	y water pres		view?	y n
Substrate:		50% Grave	el	50% Sand		% Silt		
% Mud/Cla	У	% Bedrock	·	]				
				tation or alg	gal growth	at the asse	essment sit	e)
				none				
Water Cha	racteristic	6						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	reddish br	<u>rown</u>
Bottom De	posit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	posit	Oil	Scum	Foam	<u>None</u>	Other		

Site # 8 Mark # 68 WBID # 1351

	Depth (m)		Depth (m)		Depth (m)
Transect 1	0.05	Transect 5	0.10	Transect 9	0.05
Substrate:	0.20	Substrate:	0.30	Substrate:	0.25
gravel/sand	0.40	sand	0.35	gravel/sand	0.30
Water Clarity:	0.50	Water Clarity:	0.50	Water Clarity:	0.30
none	0.55	none	1.00	none	0.35
Channel Feature:	0.60	Channel Feature:	1.00	Channel Feature:	0.40
run	0.45	pool	1.00	run	0.40
Channel Width:	0.35	Channel Width:	1.00	Channel Width:	0.45
8.00	0.20	17.00	1.00	14.00	0.40
0.38	0.10	1.00	1.00	0.33	0.15
Transect 2	0.05	Transect 6	0.50	Transect 10	0.05
Substrate:	0.25	Substrate:	0.55	Substrate:	0.25
gravel/sand	0.40	gravel/sand	0.65	gravel	0.25
Water Clarity:	0.50	Water Clarity:	0.85	Water Clarity:	0.20
none	0.65	none	0.90	none	0.20
Channel Feature:	0.75	Channel Feature:	1.00	Channel Feature:	0.20
run	0.80	pool	1.00	run	0.20
Channel Width:	0.75	Channel Width:	1.00	Channel Width:	0.20
10.00	0.60	16.00	1.00	10.00	0.25
0.55	0.25	0.95	1.00	0.20	0.20
Transect 3	0.05	Transect 7	0.25	Transect 11	0.10
Substrate:	0.25	Substrate:	0.50	Substrate:	0.25
gravel/sand	0.45	sand	0.60	gravel	0.30
Water Clarity:	0.60	Water Clarity:	0.55	Water Clarity:	0.30
none	0.75	none	0.40	soome	0.35
Channel Feature:	0.80	Channel Feature:	0.40	Channel Feature:	0.20
run	1.00	pool	0.35	run	0.20
Channel Width:	1.00	Channel Width:	0.30	Channel Width:	0.20
10.00	1.00	12.00	0.20	13.00	0.15
0.78	1.00	0.38	0.10	0.20	0.10
Transect 4	0.05	Transect 8	0.00	_	
Substrate:	0.30	Substrate:	0.20		
gravel/sand	0.55	gravel/sand	0.30		
Water Clarity:	0.55	Water Clarity:	0.40		
none	0.65	none	0.50		
Channel Feature:	0.70	Channel Feature:	0.55		
pool	0.85	pool	0.60		
Channel Width:	1.00	Channel Width:	0.60		
13.00	1.00	13.00	0.50		
0.68	1.00	0.45	0.25		

WBID 1351 Site # 9

Date and Time: 8.23.07 6:45 PM

Current Weather Conditions partly cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) 120 Road

GPS Mark: 69

Upstream Photo 21 Downstream Photo 22

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above <u>Other</u> <u>picture 23 shows Quarry</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark #	1351 69			9 Oxygen (p		2.9		
Upstream	Views Phy	sical Dime	nsions:	Is there ar	y water pre	sent at this	view?	У
				If so, is the	re an obvio	us current?		у
Select one		owing char	nnel feature	es:				
Riffle		73						]
Run Pool		27						
	am View's	Physical Di	mensions:				view?	у
				If so, is the	re an obvio	us current?		У
				Ι				1
								]
Substrate:		Janes o				[a/ au/		1
36% Cobb	le	50% Grave	el	14% Sand		% Silt		]
% Mud/Cla	ıy	% Bedrock	,	]				
Aquatic V	egetation:	(Note amoι	unt of veget	tation or al	gal growth	at the asse	essment sit	e)
				none				
				HOHE				
Water Cha	racteristic	S						
Odor		Sewage	<u>Musky</u>	Chemical	None	Other		
Color		<u>Clear</u>	Green	Gray	Milky	Other		
Bottom De	posit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	eposit	Oil	Scum	Foam	<u>None</u>	Other		

Site # 8 Mark # 68 WBID # 1351

	Depth (m)		Depth (m)		Depth (m)
Transect 1	0.05	Transect 5	0.10	Transect 9	0.05
Substrate:	0.20	Substrate:	0.30	Substrate:	0.25
gravel/sand	0.40	sand	0.35	gravel/sand	0.30
Water Clarity:	0.50	Water Clarity:	0.50	Water Clarity:	0.30
none	0.55	none	1.00	none	0.35
Channel Feature:	0.60	Channel Feature:	1.00	Channel Feature:	0.40
run	0.45	pool	1.00	run	0.40
Channel Width:	0.35	Channel Width:	1.00	Channel Width:	0.45
8.00	0.20	17.00	1.00	14.00	0.40
0.38	0.10	1.00	1.00	0.33	0.15
Transect 2	0.05	Transect 6	0.50	Transect 10	0.05
Substrate:	0.25	Substrate:	0.55	Substrate:	0.25
gravel/sand	0.40	gravel/sand	0.65	gravel	0.25
Water Clarity:	0.50	Water Clarity:	0.85	Water Clarity:	0.20
none	0.65	none	0.90	none	0.20
Channel Feature:	0.75	Channel Feature:	1.00	Channel Feature:	0.20
run	0.80	pool	1.00	run	0.20
Channel Width:	0.75	Channel Width:	1.00	Channel Width:	0.20
10.00	0.60	16.00	1.00	10.00	0.25
0.55	0.25	0.95	1.00	0.20	0.20
Transect 3	0.05	Transect 7	0.25	Transect 11	0.10
Substrate:	0.25	Substrate:	0.50	Substrate:	0.25
gravel/sand	0.45	sand	0.60	gravel	0.30
Water Clarity:	0.60	Water Clarity:	0.55	Water Clarity:	0.30
none	0.75	none	0.40	soome	0.35
Channel Feature:	0.80	Channel Feature:	0.40	Channel Feature:	0.20
run	1.00	pool	0.35	run	0.20
Channel Width:	1.00	Channel Width:	0.30	Channel Width:	0.20
10.00	1.00	12.00	0.20	13.00	0.15
0.78	1.00	0.38	0.10	0.20	0.10
Transect 4	0.05	Transect 8	0.00	-	
Substrate:	0.30	Substrate:	0.20		
gravel/sand	0.55	gravel/sand	0.30		
Water Clarity:	0.55	Water Clarity:	0.40		
none	0.65	none	0.50		
Channel Feature:	0.70	Channel Feature:	0.55		
pool	0.85	pool	0.60		
Channel Width:	1.00	Channel Width:	0.60		
13.00	1.00	13.00	0.50		
0.68	1.00	0.45	0.25		

WBID 1351 Site # 10

Date and Time: 8.23.07 7:15 PM

Current Weather Conditions partly cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) Highway E

GPS Mark: 70

Upstream Photo 24 Downstream Photo 25

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign <u>Fence</u>

Steep slopes None of the Above <u>Other</u> <u>House</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark # Upstream	1351 70 Views Phy	sical Dime		10 Oxygen (p Is there ar	<b>pm)</b> ly water pre	3.1 sent at this	view?	у
				If so, is the	re an obvio	us current?		n
Select one	of the follows		nnel feature	es:				
Riffle Run Pool		9						
Downstrea	am View's F	Physical Di	mensions:	Is there an	y water pres	sent at this v	/iew?	У
				If so, is the	re an obvioı	us current?		n
Substrate:								
9% Cobble		5% Gravel		% Sand		86% Silt		
% Mud/Cla	у	% Bedrock		]				
Aquatic Ve	egetation: (	Note amou	ınt of veget	tation or al	gal growth	at the asse	essment sit	e)
				none				
Water Cha	racteristics	5						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	Reddish b	<u>rown</u>
Bottom De	posit	Sludge	Solids	Fine Sed.	None	Other		
Surface De	posit	Oil	Scum	Foam	<u>None</u>	Other		

Site # 9 Mark # 69 WBID # 1351

	_	Depth (m)
Transect 1	ľ	0.05
Substrate:		0.10
cobble/gravel		0.15
Water Clarity:		0.20
clear		0.20
Channel Feat	ure:	0.15
riffle		0.00
Channel Widt	h:	0.10
	5.00	0.10
	0.10	0.00
Transect 2		0.00
Substrate:		0.10
cobble/gravel		0.10
Water Clarity:		0.20
clear		0.15
Channel Feat	ure:	0.15
riffle		0.20
Channel Widt	h:	0.20
	4.00	0.15
	0.15	0.05
Transect 3		0.05
Substrate:		0.10
cobble/gravel		0.20
Water Clarity:		0.15
clear		0.10
Channel Feat	ure:	0.05
riffle		0.10
Channel Widt		0.10
	4.00	0.15
	0.10	0.05
Transect 4		0.00
Substrate:		0.15
cobble/gravel		0.10
Water Clarity:		0.10
clear		0.10
Channel Feat	ure:	0.05
riffle		0.15
Channel Widt	h:	0.10
	7.00	0.05
	0.10	0.00

_	Depth (m)
Transect 5	0.00
Substrate:	0.05
cobble/gravel	0.10
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.10
riffle	0.10
Channel Width:	0.10
9.00 <b>0.08</b>	0.05
	0.00
Transect 6 Substrate:	0.10 0.05
cobble/gravel	0.00
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.00
riffle	0.00
Channel Width:	0.10
8.00	0.15
0.05	0.10
Transect 7	0.05
Substrate:	0.00
cobble/gravel	0.00
Water Clarity:	0.00
clear	0.00
Channel Feature:	0.00
riffle	0.05
Channel Width:	0.10
10.00	0.10
0.03	0.10
Transect 8	0.00
Substrate:	0.05
cobble/gravel	0.10
Water Clarity:	0.00
clear	0.05
Channel Feature:	0.10
riffle	0.10
Channel Width:	0.20 0.30
8.00	
0.10	0.30

	Depth (m)
Transect 9	0.10
Substrate:	0.10
gravel/sand	0.15
Water Clarity:	0.15
clear	0.25
Channel Feature:	0.15
pool	0.15
Channel Width:	0.10
8.00	0.10
0.13	0.05
Transect 10	0.05
Substrate:	0.20
gravel/sand	0.30
Water Clarity:	0.40
clear	0.45
Channel Feature:	0.35
pool	0.30
Channel Width:	0.25
8.00	0.05
0.28	0.00
Transect 11	0.05
Substrate:	0.10
gravel/sand	0.20
Water Clarity:	0.25
clear	0.30
Channel Feature:	0.40
pool	0.30
Channel Width:	0.25
6.00	0.20
0.23	0.10

WBID 1351 Site # 10

Date and Time: 8.23.07 7:15 PM

Current Weather Conditions partly cloudy

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) Highway E

GPS Mark: 70

Upstream Photo 24 Downstream Photo 25

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above **Other House** 

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark # Upstream	1351 70 <b>Views Phy</b>			10 Oxygen (p Is there ar	<b>pm)</b> ny water pre	3.1 sent at this	view?	у
				If so, is the	re an obvio	us current?		n
Select one		owing cha	nnel featur	es:				_
Riffle Run		9						
Pool		91						
Downstrea	am View's	Physical D	imensions:	Is there an	y water pres	sent at this	view?	у
				If so, is the	re an obvio	us current?		n
								1
Substrate:								
9% Cobble		5% Gravel		% Sand		86% Silt		]
% Mud/Cla	У	% Bedrock	(	]				
Aquatic Ve	egetation:	(Note amou	unt of vege	tation or al	gal growth	at the ass	essment si	te)
				none				
Water Cha	ıracteristic	s						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	<u>Milky</u>	<u>Other</u>	Reddish b	<u>rown</u>
Bottom De	posit	Sludge	Solids	Fine Sed.	None	Other		
Surface De	eposit	Oil	Scum	Foam	<u>None</u>	Other		

Site # 10 Mark # 70 WBID # 1351

	Depth (m)		Depth (m)	
Transect 1	0.35	Transect 5	0.35	Transect 9
Substrate:	0.60	Substrate:	0.55	Substrate:
silt	0.95	silt	0.85	cobble
Water Clarity:	1.00	Water Clarity:	1.00	Water Clarity:
none	1.00	none	1.00	none
Channel Feature:	1.00	Channel Feature:	0.90	Channel Feature:
pool	1.00	pool	0.90	riffle
Channel Width:	1.00	Channel Width:	1.00	Channel Width:
8.00	1.00	8.00	1.00	6.00
1.00	1.00	0.95	1.00	0.18
Transect 2	0.15	Transect 6	0.20	Transect 10
Substrate:	0.70	Substrate:	0.25	Substrate:
silt	1.00	silt	0.75	silt
Water Clarity:	1.00	Water Clarity:	1.00	Water Clarity:
none	1.00	none	1.00	none
Channel Feature:	1.00	Channel Feature:	1.00	Channel Feature:
pool	1.00	pool	1.00	pool
Channel Width:	1.00	Channel Width:	1.00	Channel Width:
8.00	1.00	8.00	1.00	9.00
1.00	0.85	1.00	1.00	0.50
Transect 3	0.20	Transect 7	0.35	Transect 11
Substrate:	0.75	Substrate:	0.70	Substrate:
silt	0.90	silt	0.90	silt
Water Clarity:	0.90	Water Clarity:	1.00	Water Clarity:
none	1.00	none	1.00	none
Channel Feature:		Channel Feature:	1.00	Channel Feature:
pool Channel Width:	1.00 1.00	pool Channel Width:	1.00	pool Channel Width:
8.00	0.90	8.00	0.90 0.80	9.00
0.90	0.90	0.90	0.65	1.00
Transect 4	0.30	Transect 8	0.05	1.00
Substrate:	0.70	Substrate:	0.65	
silt/gravel	0.90	silt	0.70	
Water Clarity:	0.90	Water Clarity:	0.65	
none	0.90	none	0.65	
Channel Feature:	0.75	Channel Feature:	0.65	
pool	0.50	pool	0.70	
Channel Width:	0.55	Channel Width:	0.45	

8.00 **0.65** 

	Depth (m)
Transect 9	0.00
Substrate:	0.05
cobble	0.05
Water Clarity:	0.20
none	0.15
Channel Feature:	0.05
riffle	0.35
Channel Width:	0.55
6.00	0.60
0.18	0.35
Transect 10	0.15
Substrate:	0.40
silt	0.45
Water Clarity:	0.70
none	0.85
Channel Feature:	0.70
pool	0.70
Channel Width:	0.55
9.00	0.40
0.50	0.15
Transect 11	0.25
Substrate:	0.65
silt	0.80
Water Clarity:	1.00
none	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
9.00	1.00
1.00	1.00

Site Median Site Maximum 0.85 1.00

WBID 1351 Site # 11

Date and Time: 8.23.07 7:40 PM

Current Weather Conditions clear

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing)

County Road 85 or Dade 21

GPS Mark: 71

Upstream Photo 26 Downstream Photo 27

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above Other

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # Mark # Upstream	1351 71 <b>Views Phy</b>			11 Oxygen (p Is there ar	<b>pm)</b> ny water pre	4.1 sent at this	view?	у
				If so, is the	re an obvio	us current?		n
·		nel Feature	nnel featur	es:	Γ	Γ	r	1
Riffle Run		9						1
Pool		91						J
Downstrea	am View's	Physical D	imensions:	Is there an	y water pres	sent at this	view?	у
				If so, is the	re an obvio	us current?		n
ĺ				1	Ι	Г	ı	1
								1
						<u> </u>		J
Substrate:								
27% Cobbl	е	55% Grave	el	% Sand		% Silt		]
% Mud/Cla	У	18% Bedro	ock	]				
Aquatic Ve	egetation:	(Note amou	unt of vege	tation or al	gal growth	at the ass	essment si	te)
,			v along the l					
Water Cha	racteristic	s						
Odor		Sewage	Musky	Chemical	<u>None</u>	Other		
Color		Clear	Green	Gray	Milky	<u>Other</u>	<u>Reddish b</u>	<u>orown</u>
Bottom De	posit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface De	posit	Oil	Scum	Foam	<u>None</u>	Other		

### Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth) (Median Depth Shown in Bold)

_	Depth (m)		Depth (m)		Depth (m
Transect 1	0.05	Transect 5	0.10	Transect 9	0.
Substrate:	0.25	Substrate:	0.30	Substrate:	0.
gravel	0.30	cobble/bedrock	0.45	gravel	0.
Water Clarity:	0.35	Water Clarity:	0.40	Water Clarity:	0.
clear	0.30	some	0.45	none	0.
Channel Feature:	0.25	Channel Feature:	0.00	Channel Feature:	0.
pool	0.20	pool	0.00	pool	0.
Channel Width:	0.10	Channel Width:	0.15	Channel Width:	0
5.00	0.05	6.00	0.15	8.00	0.
0.23	0.05	0.15	0.00	0.35	0
Transect 2	0.05	Transect 6	0.05	Transect 10	0
Substrate:	0.15	Substrate:	0.30	Substrate:	0.
gravel	0.20	cobble/gravel	0.50	gravel	0.
Water Clarity:	0.40	Water Clarity:	0.40	Water Clarity:	0.
clear	0.40	some	0.40	none	0.
Channel Feature:	0.45	Channel Feature:	0.45	Channel Feature:	0.
pool	0.30	pool	0.40	pool	0.
Channel Width:	0.10	Channel Width:	0.30	Channel Width:	0.
5.00	0.10	7.00	0.25	13.00	0.
0.18	0.05	0.35	0.10	0.70	0.
Transect 3	0.10	Transect 7	0.10	Transect 11	0.
Substrate:	0.20	Substrate:	0.45	Substrate:	0.
gravel	0.40	cobble/gravel	0.50	cobble	0.
Water Clarity:	0.50	Water Clarity:	0.55	Water Clarity:	0.
clear	0.50	soome	0.45	clear	0.
Channel Feature:	0.40	Channel Feature:	0.50	Channel Feature:	0.
pool	0.35	pool	0.40	riffle	0.
Channel Width:	0.25	Channel Width:	0.40	Channel Width:	0.
5.00	0.30	5.00	0.30	13.00	0.
0.33	0.30	0.43	0.20	0.08	0.
Transect 4	0.10	Transect 8	0.05		
Substrate:	0.20	Substrate:	0.30		Site Mediar
gravel/bedrock	0.40	cobble/gravel	0.40		0.
Water Clarity:	0.55	Water Clarity:	0.40		
clear	0.70	some	0.50		
Channel Feature:	0.75	Channel Feature:	0.40		
	0.70		0.00		

pool

5.00

0.30

0.10

Channel Width:

0.70

0.60

0.55

pool

Channel Width:

7.00

0.55

Site Median Site Maximum 0.30 0.90

WBID 1351 Site # 12

Date and Time: 8.24.07 9:22 AM

Current Weather Conditions cloudy and light rain

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing)

County Road 102

GPS Mark: 72

Upstream Photo 28 Downstream Photo 29

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above <u>Other hay ground, farm buildings,</u>

and a train in the distance

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # 135 Mark # 7 Upstream Views Ph	2		12 <b>d Oxygen (p</b> Is there a		3.3 esent at this		у
			If so, is the	ere an obvic	ous current?	)	n
Select one of the fo	llowing cha	nnel festur	oe.				
	nnel Feature		<b>C</b> 3.				
Riffle	27						
Run	64						
Pool	9						
Downstream View's	Physical D	imensions	: Is there an	ıy water pre	sent at this	view?	у
			If so, is the	ere an obvic	ous current?	)	n
			1		1	1	1
							1
							1
				ı			_
Substrate:							
28% Cobble	36% Grav	el	36% Sand		% Silt		]
% Mud/Clay	% Bedroc	k	7				
	•			land avenuth	o 4 4 h o o o o	t a	(4a)
Aquatic Vegetation:	(Note amo	unt of vege	etation or a	igai growtr	at the ass	essment s	ite)
			none				
Water Characteristic	cs						
Odor	Sewage	Musky	Chemical	<u>None</u>	Other		
Color	<u>Clear</u>	Green	Gray	Milky	<u>Other</u>	Reddish l	<u>orown</u>
Bottom Deposit	Sludge	Solids	Fine Sed.	<u>None</u>	Other		
Surface Deposit	Oil	Scum	Foam	<u>None</u>	Other		

## Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth) (Median Depth Shown in Bold)

Site # 12 Mark # 72 WBID # 1351

	Depth (m)		Depth (m)		Depth (m)	
Transect 1	0.00	Transect 5	0.00	Transect 9	0.00	
Substrate:	0.10	Substrate:	0.05	Substrate:	0.05	
cobble/sand	0.15	cobble/gravel	0.05	gravel/sand	0.10	
Water Clarity:	0.25	Water Clarity:	0.05	Water Clarity:	0.10	
clear	0.25	clear	0.05	clear	0.10	
Channel Feature:	0.25	Channel Feature:	0.05	Channel Feature:	0.10	
run	0.25	run	0.00	pool	0.10	
Channel Width:	0.15	Channel Width:	0.00	Channel Width:	0.10	
6.00	0.10	4.00	0.00	4.00	0.05	
0.15	0.05	0.03	0.00	0.10	0.10	
Transect 2	0.05	Transect 6	0.00	Transect 10	0.00	
Substrate:	0.20	Substrate:	0.05	Substrate:	0.00	
cobble/sand	0.25	cobble/gravel	0.00	gravel/sand	0.05	
Water Clarity:	0.40	Water Clarity:	0.00	Water Clarity:	0.05	
clear	0.40	clear	0.00	clear	0.05	
Channel Feature:	0.40	Channel Feature:	0.00	Channel Feature:	0.00	
run	0.30	riffle	0.00	riffle	0.05	
Channel Width:	0.20	Channel Width:	0.00	Channel Width:	0.00	
6.00	0.10	5.00	0.05	2.00	0.00	
0.23	0.00	0.00	0.00	0.00	0.00	
Transect 3	0.00	Transect 7	0.00	Transect 11	0.00	
Substrate:	0.15	Substrate:	0.00	Substrate:	0.00	
cobble/sand	0.15	gravel/sand	0.05	gravel/sand	0.05	
Water Clarity:	0.10	Water Clarity:	0.05	Water Clarity:	0.05	
clear	0.05	clear	0.05	clear	0.05	
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00	
run	0.10	run	0.00	riffle	0.00	
Channel Width:	0.10	Channel Width:	0.00	Channel Width:	0.00	
8.00	0.10	1.00	0.00	1.00	0.00	
0.10	0.10	0.00	0.00	0.00	0.00	
Transect 4	0.00	Transect 8	0.00			
Substrate:	0.05	Substrate:	0.05		Site Median	Site Maximum
cobble/gravel	0.05	gravel/sand	0.10		0.05	0.40
Water Clarity:	0.00	Water Clarity:	0.10			
clear	0.00	clear	0.10			
Channel Feature:	0.00	Channel Feature:	0.05			
run	0.00	run	0.05			
Channel Width:	0.00	Channel Width:	0.00			
7.00	0.05	1.00	0.00			
0.00	0.00	0.05	0.00			

WBID 1351 Site # 13

Date and Time: 8.24.07 10:00 AM

Current Weather Conditions cloudy and rain

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) downstream of site 12

GPS Mark: 73

Upstream Photo 31 Downstream Photo 30

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above <u>Other hayground and a wooded area</u>

Indications of Human Use

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # 135 Mark # 73	3		13 I Oxygen (p	pm)				
Upstream Views Ph	ysical Dime	ensions:	Is there a	ny water pre	esent at this	view?	У	
If so, is there an obvious current?								
Select one of the fol	lowing cha	nnel featur	es:					
	nnel Feature	9	_			_	_	
Riffle	10						4	
Run Pool	45 45						4	
P001	40						J	
Downstream View's	Physical D	imensions	: Is there an	y water pre	sent at this	view?	у	
			If so, is the	ere an obvic	ous current?	•	n	
							1	
Substrate:								
5% Cobble	32% Grav	el	63% Sand		% Silt		]	
% Mud/Clay	% Bedroc	k	]					
Aquatic Vegetation:	(Note amo	unt of vege	etation or a	gal growth	at the ass	essment s	ite)	
			none					
Water Characteristic	cs							
Odor	Sewage	Musky	Chemical	<u>None</u>	Other			
Color	<u>Clear</u>	Green	Gray	Milky	<u>Other</u>	<u>Reddish l</u>	<u>orown</u>	
Bottom Deposit	Sludge	Solids	Fine Sed.	<u>None</u>	Other			
Surface Deposit	Oil	Scum	Foam	<u>None</u>	Other			

### Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth) (Median Depth Shown in Bold) Mark # 73

Site # 13 WBID # 1351

_	Depth (m)	_	Depth (m)		Depth (m)	_
Transect 1	0.00	Transect 5	0.00	Transect 9	0.00	
Substrate:	0.10	Substrate:	0.10	Substrate:	0.05	
gravel/sand	0.20	cobble/sand	0.05	gravel/sand	0.05	
Water Clarity:	0.25	Water Clarity:	0.10	Water Clarity:	0.05	
clear	0.30	clear	0.25	clear	0.05	
Channel Feature:	0.35	Channel Feature:	0.30	Channel Feature:	0.05	
run	0.30	pool	0.35	run	0.00	
Channel Width:	0.20	Channel Width:	0.35	Channel Width:	0.00	
7.00	0.10	3.00	0.15	3.00	0.00	
0.20	0.05	0.20	0.35	0.03	0.00	
Transect 2	0.00	Transect 6	0.10	Transect 10	0.00	
Substrate:	0.10	Substrate:	0.25	Substrate:	0.00	
gravel/sand	0.15	sand	0.55	gravel/sand	0.00	
Water Clarity:	0.15	Water Clarity:	0.70	Water Clarity:	0.05	
clear	0.15	clear	0.85	clear	0.10	
Channel Feature:	0.05	Channel Feature:	0.80	Channel Feature:	0.15	
run	0.05	pool	0.80	pool	0.15	
Channel Width:	0.05	Channel Width:	0.75	Channel Width:	0.10	
7.00	0.05	8.00	0.65	5.00	0.15	
0.05	0.05	0.68	0.50	0.08	0.05	
Transect 3	0.00	Transect 7	0.05	Transect 11	0.05	
Substrate:	0.05	Substrate:	0.40	Substrate:	0.15	
gravel/sand	0.05	sand	0.50	gravel/sand	0.20	
Water Clarity:	0.15	Water Clarity:	0.50	Water Clarity:	0.25	
clear	0.20	clear	0.50	clear	0.20	
Channel Feature:	0.30	Channel Feature:	0.45	Channel Feature:	0.15	
run	0.20	pool	0.35	pool	0.10	
Channel Width:	0.15	Channel Width:	0.20	Channel Width:	0.05	
4.00	0.10		0.10	3.00	0.00	
0.13	0.05	0.38	0.05	0.13	0.00	
Transect 4	0.00	Transect 8	0.00			<del>-</del> "
Substrate:	0.00	Substrate:	0.00		Site Median	Site Maximum
gravel/sand	0.10	sand	0.00		0.10	0.85
Water Clarity:	0.05	Water Clarity:	0.00			
clear	0.05	clear	0.00			
Channel Feature:	0.05	Channel Feature:	0.00			
run	0.00	riffle	0.00			
Channel Width:	0.00	Channel Width:	0.15			
1.00	0.00	5.00	0.05			
0.00	0.00	0.00	0.00			

### Data Sheet B - Site Characterization (must be completed for each site)

WBID 1351 Site # 14

Date and Time: 8.24.07 11:20am

Current Weather Conditions rain

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing) Highway D

GPS Mark: 74

Upstream Photo 33 Downstream Photo 32

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above <u>Other</u> <u>Hayground, pasture, a house</u>

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID # 135 Mark # 74 Upstream Views Ph	4		14 I Oxygen (p		3.1		V
Opstream views Fig	ysicai Dillie	:11510115.	is there a	iy water pre	sent at tins	view:	У
			If so, is the	ere an obvio	us current?	•	n
Select one of the fol	_		es:				
% of Char	nnel Feature 27	)	1		1	I	٦
Run							1
Pool	73						]
Downstream View's	Physical D	imensions	: Is there an	y water pre	sent at this	view?	у
			If so, is the	ere an obvio	us current?	•	у
							4
				1	<u> </u>		_
Substrate:							
% Cobble	50% Grav	el	50% Sand		% Silt		]
0/ Maral/Olari	In/ Design	1-	- -				
% Mud/Clay	% Bedroc	K					
Aquatic Vegetation:	(Note amo	unt of vege	tation or a	lgal growth	at the ass	essment s	ite)
			none				
Water Characteristic	cs						
Water Characteristic	Sewage	Musky	Chemical	<u>None</u>	Other		
		Musky Green	Chemical Gray	<b>None</b> Milky	Other  Other	<u>Reddish l</u>	<u>brown</u>
Odor	Sewage	·		Milky		<u>Reddish l</u>	<u>brown</u>

#### Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth) (Median Depth Shown in Bold)

Mark # 74 Site # 14 WBID # 1351

_	Depth (m)	_	Depth (m)		Depth (m)	
Transect 1	0.15	Transect 5	0.05	Transect 9	0.40	
Substrate:	0.30	Substrate:	0.05	Substrate:	0.45	
gravel/sand	0.50	gravel/sand	0.20	gravel/sand	0.45	
Water Clarity:	0.40	Water Clarity:	0.25	Water Clarity:	0.50	
none	0.35	none	0.20	none	0.40	
Channel Feature:	0.35	Channel Feature:	0.05	Channel Feature:	0.30	
pool	0.25	riffle	0.00	pool	0.30	
Channel Width:	0.25	Channel Width:	0.05	Channel Width:	0.30	
7.00		4.00	0.00	8.00	0.25	
0.28	0.10	0.05	0.00	0.35	0.25	
Transect 2	0.05	Transect 6	0.10	Transect 10	0.35	
Substrate:	0.20	Substrate:	0.25	Substrate:	0.35	
gravel/sand	0.20	gravel/sand	0.40	gravel/sand	0.50	
Water Clarity:	0.20	Water Clarity:	0.50	Water Clarity:	0.60	
none	0.00	none	0.40	none	0.60	
Channel Feature:	0.35	Channel Feature:	0.45	Channel Feature:	0.55	
pool	0.40	pool	0.45	pool	0.55	
Channel Width:	0.40	Channel Width:	0.45	Channel Width:	0.25	
7.00		8.00	0.30	6.00	0.15	
0.20	0.10	0.40	0.25	0.43	0.00	
Transect 3	0.20	Transect 7	0.10	Transect 11	0.00	
Substrate:	0.20	Substrate:	0.25	Substrate:	0.00	
gravel/sand	0.40	gravel/sand	0.45	gravel/sand	0.00	
Water Clarity:	0.50	Water Clarity:	0.45	Water Clarity:	0.15	
none	0.65	none	0.40	none	0.25	
Channel Feature:	0.55	Channel Feature:	0.50	Channel Feature:	0.20	
pool	0.45	pool	0.40	riffle	0.25	
Channel Width:	0.20	Channel Width:	0.35	Channel Width:	0.10	
7.00	0.25	8.00	0.25	4.00	0.05	
0.33	0.20	0.38	0.10	0.08	0.00	
Transect 4	0.10	Transect 8	0.60	,		_
Substrate:	0.05	Substrate:	0.55		Site Median	Site Maximum
gravel/sand	0.05	gravel/sand	0.45		0.25	0.65
Water Clarity:	0.10	Water Clarity:	0.45			
none	0.15	none	0.30			
Channel Feature:	0.05	Channel Feature:	0.45			
riffle	0.00	pool	0.45			
Channel Width:	0.00	Channel Width:	0.30			
6.00		8.00	0.30			
0.05	0.05	0.45	0.35			

0.65

WBID 1351 Site # 15

Date and Time: 8.24.07 11:55am

Current Weather Conditions rain

Weather Conditions for Past 10 days: 0.3 inches was maximum rainfall

Drought Conditions? No

Site Location (e.g. road crossing)

County Road 360/Route 92

GPS Mark: 75

Upstream Photo 34 Downstream Photo 35

Uses Observed (Uses actually observed at time of survey) Circle

Swimming Skin Diving SCUBA diving Tubing

Water Skiing Wind Surfing Kayaking Boating

Wading Rafting Hunting Trapping

Fishing <u>None of the Above</u> Other

**Surrounding Conditions** 

City/county parks Playgrounds MDC conservation lands Urban areas

Campgrounds Boating accesses State parks National Forests

Nature trails Stairs/walkway No trespass sign Fence

Steep slopes None of the Above Other

**Indications of Human Use** 

Roads Rope swings Foot paths/prints Dock/platform

Livestock Watering RV/ATV Tracks Camping Sites Fire pit/ring

WBID#	1351		Site #	15				
Mark#	75		Dissolved	Oxygen (p	pm)	3.6		
<b>Upstream</b>	Views Phy	sical Dime	nsions:	Is there ar	ny water pre	sent at this	view?	у
				If so, is the	re an obvio	us current?		n
Select one	of the foll	owing cha	nnel feature	es:				
		nel Feature						
Riffle								1
Run		91						1
Pool		9						1
		-						_
Downstrea	m View's	Physical D	imensions:	Is there an	v water pres	sent at this	view?	у
Download		. IIyolodi D		io aloro all	y water proc	orne de tino	V1011 .	y
				If so is the	ere an obvio	us current?		n
				11 50, 15 1116	ile all obvio	us current:		11
i				1	1	1	I	7
								4
								4
Substrate:								
				-		•		_
% Cobble		50% Grave	el	50% Sand		% Silt		]
		50% Grave	el	50% Sand		% Silt		]
% Cobble % Mud/Cla	у	50% Grave		50% Sand		% Silt		]
	у			50% Sand		% Silt		]
% Mud/Cla		% Bedrock	(	]	gal growth		essment s	] ite)
% Mud/Cla		% Bedrock		]	gal growth		essment si	ite)
% Mud/Cla		% Bedrock	(	]	gal growth		essment s	ite)
% Mud/Cla		% Bedrock	(	]	gal growth		essment si	ite)
% Mud/Cla		% Bedrock	(	]	gal growth		essment si	ite)
% Mud/Cla		% Bedrock	(	]	gal growth		essment si	ite)
% Mud/Cla		% Bedrock	(	]	gal growth		essment si	ite)
% Mud/Cla		% Bedrock	unt of vege	tation or al			essment s	ite)
% Mud/Cla		% Bedrock	unt of vege	]			essment s	ite)
% Mud/Cla	egetation:	% Bedrock	unt of vege	tation or al			essment s	ite)
% Mud/Cla	egetation:	% Bedrock	unt of vege	tation or al			essment si	ite)
% Mud/Cla  Aquatic Ve	egetation:	% Bedrock	unt of vege	tation or al	low	at the ass	essment si	ite)
% Mud/Cla	egetation:	% Bedrock	unt of vege	tation or al			essment s	ite)
% Mud/Cla  Aquatic Ve	egetation:	% Bedrock (Note amou	unt of vege	tation or al	low <u>None</u>	at the asso	essment si	ite)
% Mud/Cla  Aquatic Ve	egetation:	% Bedrock	unt of vege	tation or al	low	at the ass	essment s	ite)
% Mud/Cla  Aquatic Ve  Water Cha  Odor  Color	egetation:	% Bedrock (Note amou	unt of vege  10  Musky Green	tation or al % small wil Chemical Gray	low <u>None</u> Milky	at the asse	essment s	ite)
% Mud/Cla  Aquatic Ve	egetation:	% Bedrock (Note amou	unt of vege	tation or al	low <i>None</i> Milky	at the asso	essment s	ite)
Water Cha Odor Color Bottom Dep	racteristic	% Bedrock (Note amou	unt of vege  10  Musky Green	tation or al % small will Chemical Gray Fine Sed.	low <u>None</u> Milky	Other Other Other	essment s	ite)
% Mud/Cla  Aquatic Ve  Water Cha  Odor  Color	racteristic	% Bedrock (Note amou	unt of vege  10  Musky Green	tation or al % small wil Chemical Gray	low <u>None</u> Milky	at the asse	essment si	ite)

## Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth) (Median Depth Shown in Bold)

Site # 15 Mark # 75 WBID # 1351

_	Depth (m)		Depth (m)		Depth (m)
Transect 1	0.05	Transect 5	0.05	Transect 9	0.05
Substrate:	0.15	Substrate:	0.10	Substrate:	0.15
gravel/sand	0.30	gravel/sand	0.15	gravel/sand	0.25
Water Clarity:	0.45	Water Clarity:	0.20	Water Clarity:	0.35
clear	0.35	clear	0.25	some	0.35
Channel Feature:	0.35	Channel Feature:	0.35	Channel Feature:	0.35
run	0.30	run	0.30	run	0.35
Channel Width:	0.25	Channel Width:	0.20	Channel Width:	0.20
6.00	0.20	6.00	0.15	7.00	0.15
0.28	0.05	0.18	0.05	0.23	0.00
Transect 2	0.05	Transect 6	0.00	Transect 10	0.00
Substrate:	0.10	Substrate:	0.15	Substrate:	0.10
gravel/sand	0.15	gravel/sand	0.20	gravel/sand	0.15
Water Clarity:	0.20	Water Clarity:	0.35	Water Clarity:	0.25
clear	0.35	clear	0.35	some	0.40
Channel Feature:	0.40	Channel Feature:	0.30	Channel Feature:	0.35
run	0.40	run	0.30	run	0.30
Channel Width:	0.30	Channel Width:	0.20	Channel Width:	0.25
7.00		8.00	0.15	6.00	0.20
0.18	0.05	0.20	0.10	0.23	0.10
Transect 3	0.05	Transect 7	0.15	Transect 11	0.05
Substrate:	0.15	Substrate:	0.30	Substrate:	0.15
gravel/sand	0.35	gravel/sand	0.35	gravel/sand	0.25
Water Clarity:	0.55	Water Clarity:	0.50	Water Clarity:	0.25
clear	0.65	clear	0.55	some	0.40
Channel Feature:	0.70	Channel Feature:	0.50	Channel Feature:	0.30
run	0.50	run	0.50	run	0.25
Channel Width:	0.30	Channel Width:	0.35	Channel Width:	0.20
7.00	0.15	9.00	0.20	7.00	0.15
0.33	0.00	0.35	0.15	0.23	0.05
Transect 4	0.15	Transect 8	0.10	•	<del></del>
Substrate:	0.20	Substrate:	0.15		Site Median Site Maximum
gravel/sand	0.45	gravel/sand	0.30		0.25 0.75
Water Clarity:	0.60	Water Clarity:	0.35		
clear	0.75	clear	0.45		
Channel Feature:	0.70	Channel Feature:	0.60		
pool	0.65	run	0.50		
Channel Width:	0.40	Channel Width:	0.35		
8.00		10.00	0.20		
0.43	0.20	0.33	0.05		



Site# 1 Photo ID# 2, Upstream



Site# 2 Photo ID# 3, Upstream



Site# 1 Photo ID# 1, Downstream



Site# 2 Photo ID# 4, Downstream



Site# 3 Photo ID# 7, Upstream



Site# 4 Photo ID# 9, Upstream



Site# 3 Photo ID# 6, Downstream



Site# 4 Photo ID# 8, Downstream



Site# 5 Photo ID# 10, Upstream



Site# 6 Photo ID# 13, Upstream



Site# 5 Photo ID# 11, Downstream



Site# 6 Photo ID# 12, Downstream



Site# 7 Photo ID# 15, Upstream



Site# 8 Photo ID# 18, Upstream



Site# 7 Photo ID# 14, Downstream



Site# 8 Photo ID# 17, Downstream



Site# 9 Photo ID# 21, Upstream



Site# 9 Photo ID# 23, Quarry



Site# 9 Photo ID# 22, Downstream



Site# 10 Photo ID# 24, Upstream



Site# 10 Photo ID# 25, Downstream



Site# 11 Photo ID# 27, Downstream



Site# 11 Photo ID# 26, Upstream



Site# 12 Photo ID# 28, Upstream



Site# 12 Photo ID# 29, Downstream



Site# 13 Photo ID# 30, Downstream



Site# 13 Photo ID# 31, Upstream



Site# 14 Photo ID# 33, Upstream



Site# 14 Photo ID# 32, Downstream



Site# 15 Photo ID# 35, Downstream



Site# 15 Photo ID# 34, Upstream